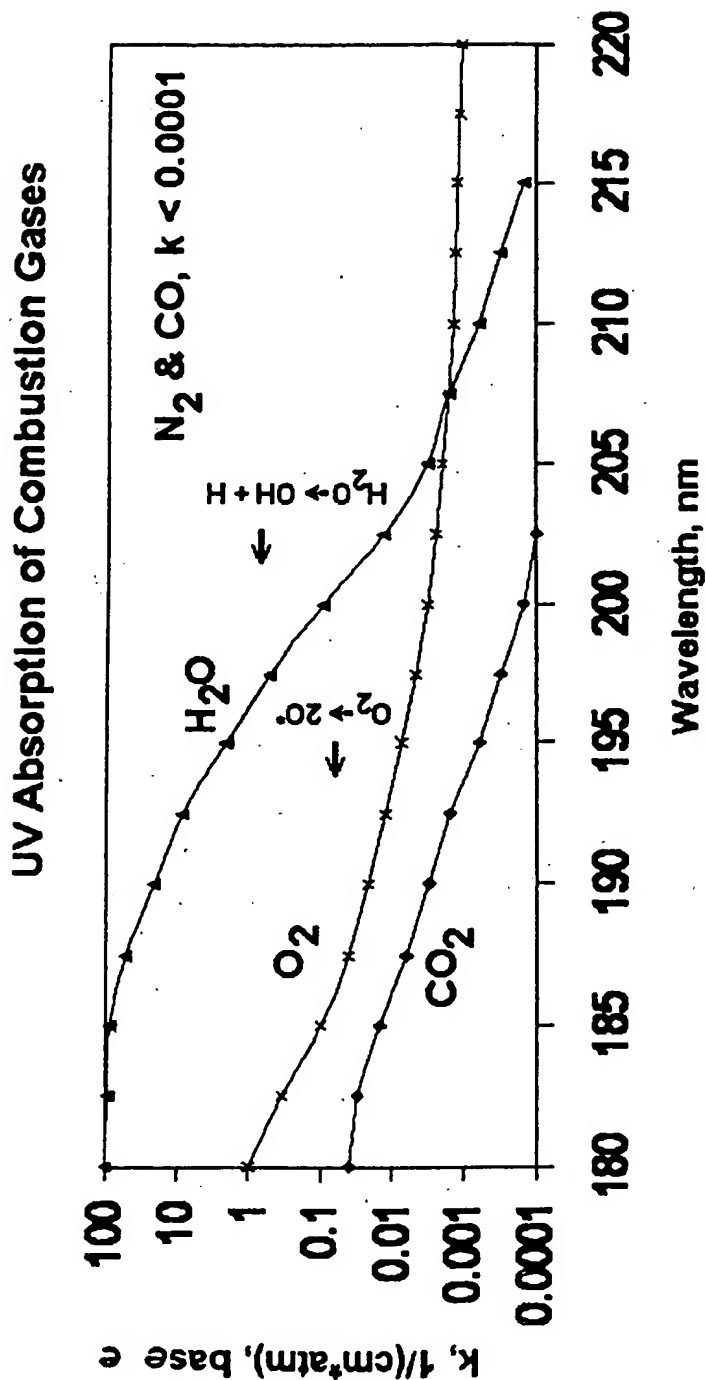




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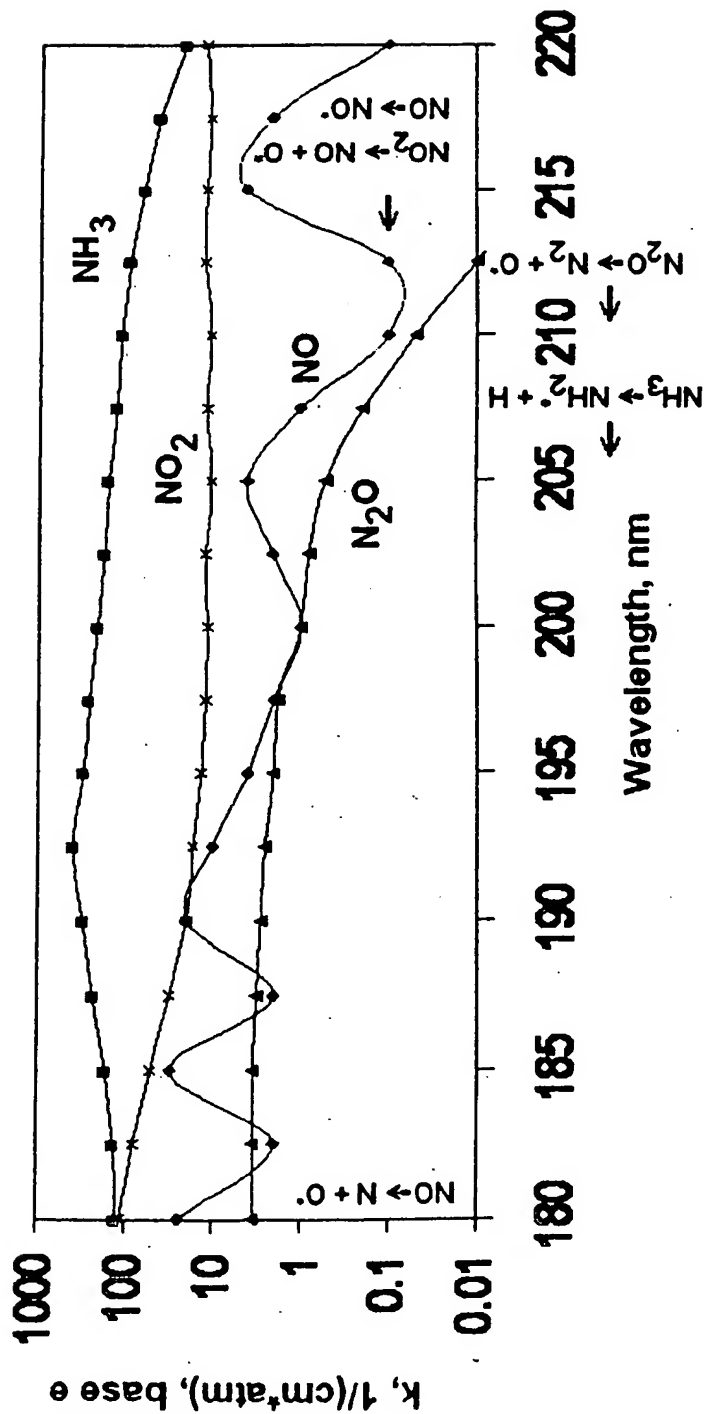
FIG. 1a.



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FIG. 1b.

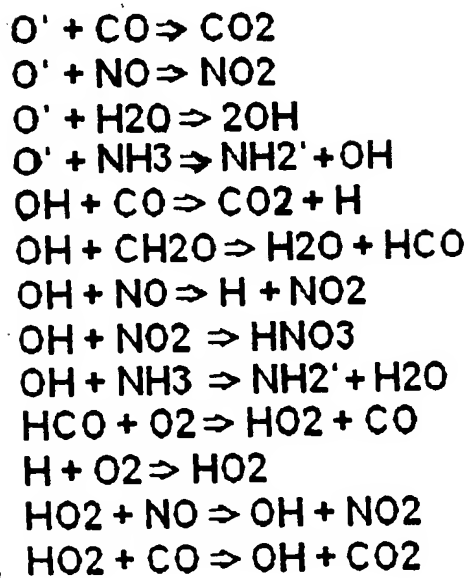
UV Absorption of Nitrogen Based Gases



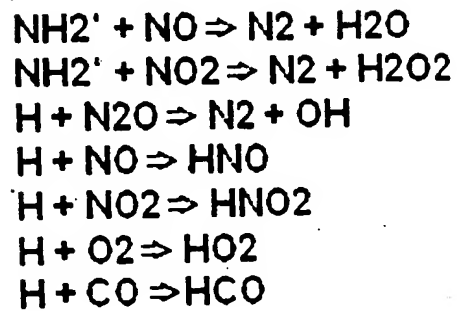
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*Fig. 1c.*

### Oxidation



### Reduction



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FIG. 2a.

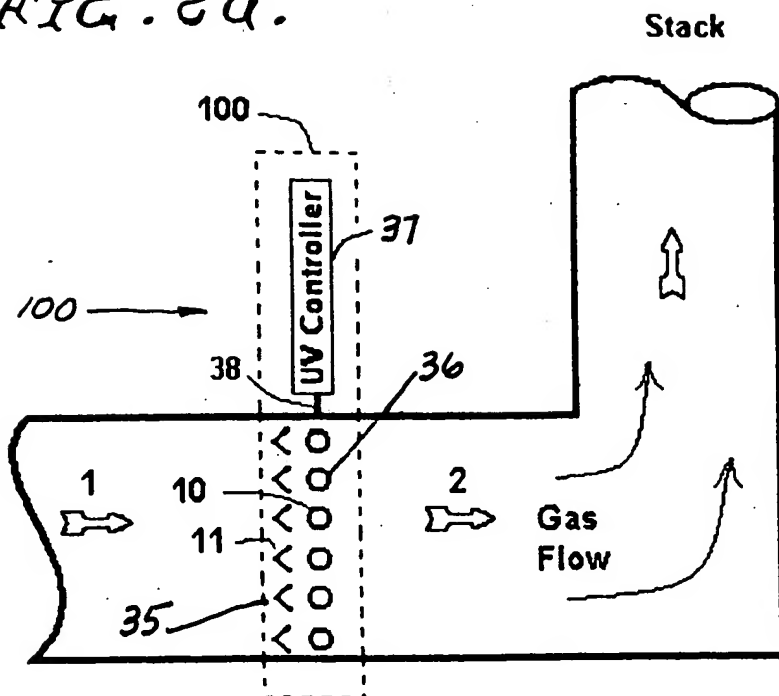
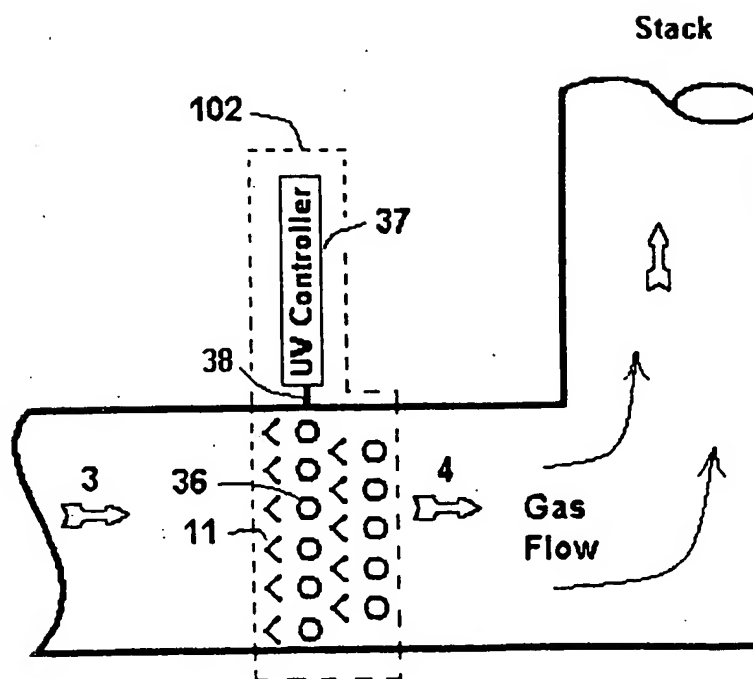
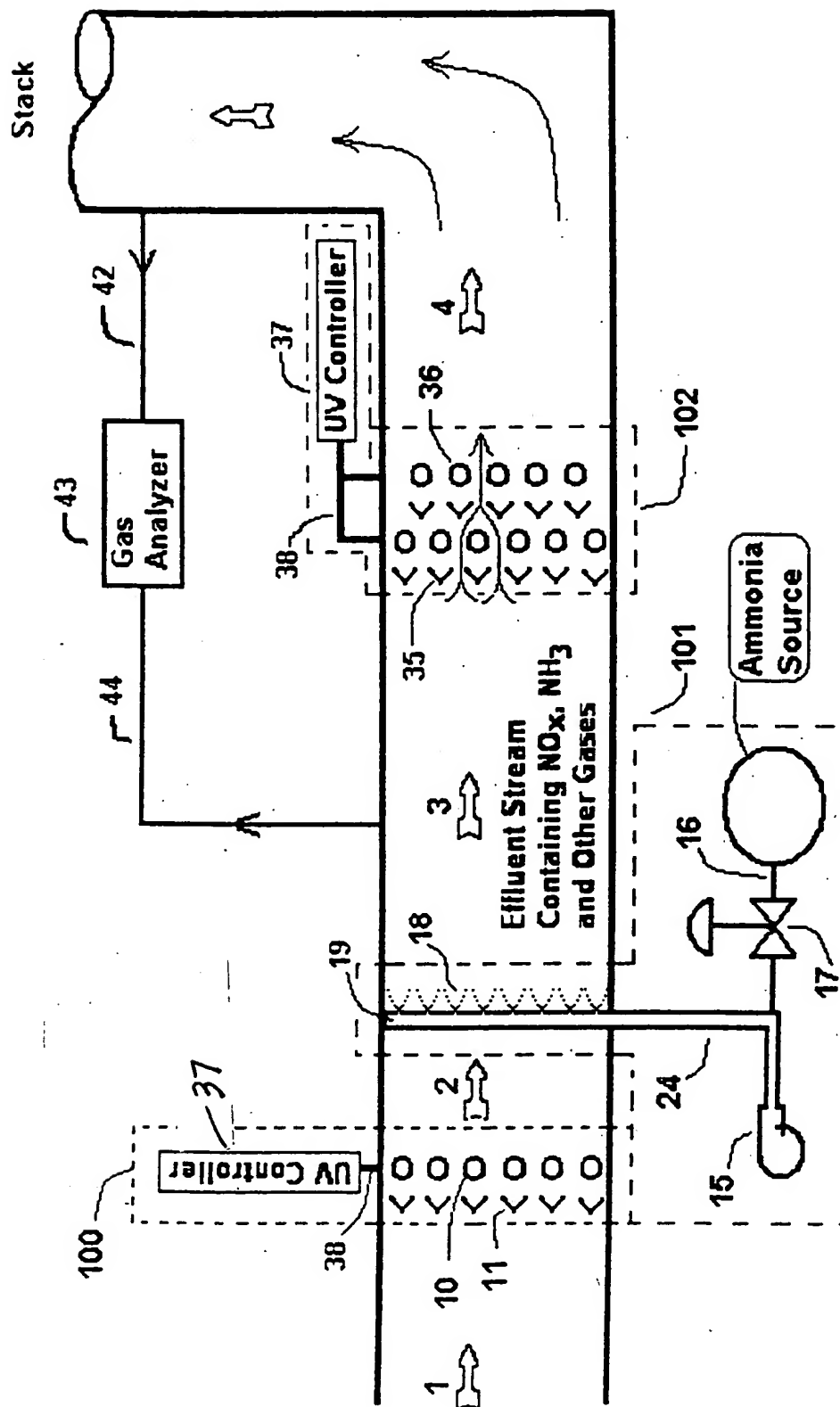


FIG. 2b.



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Fig. 3a.



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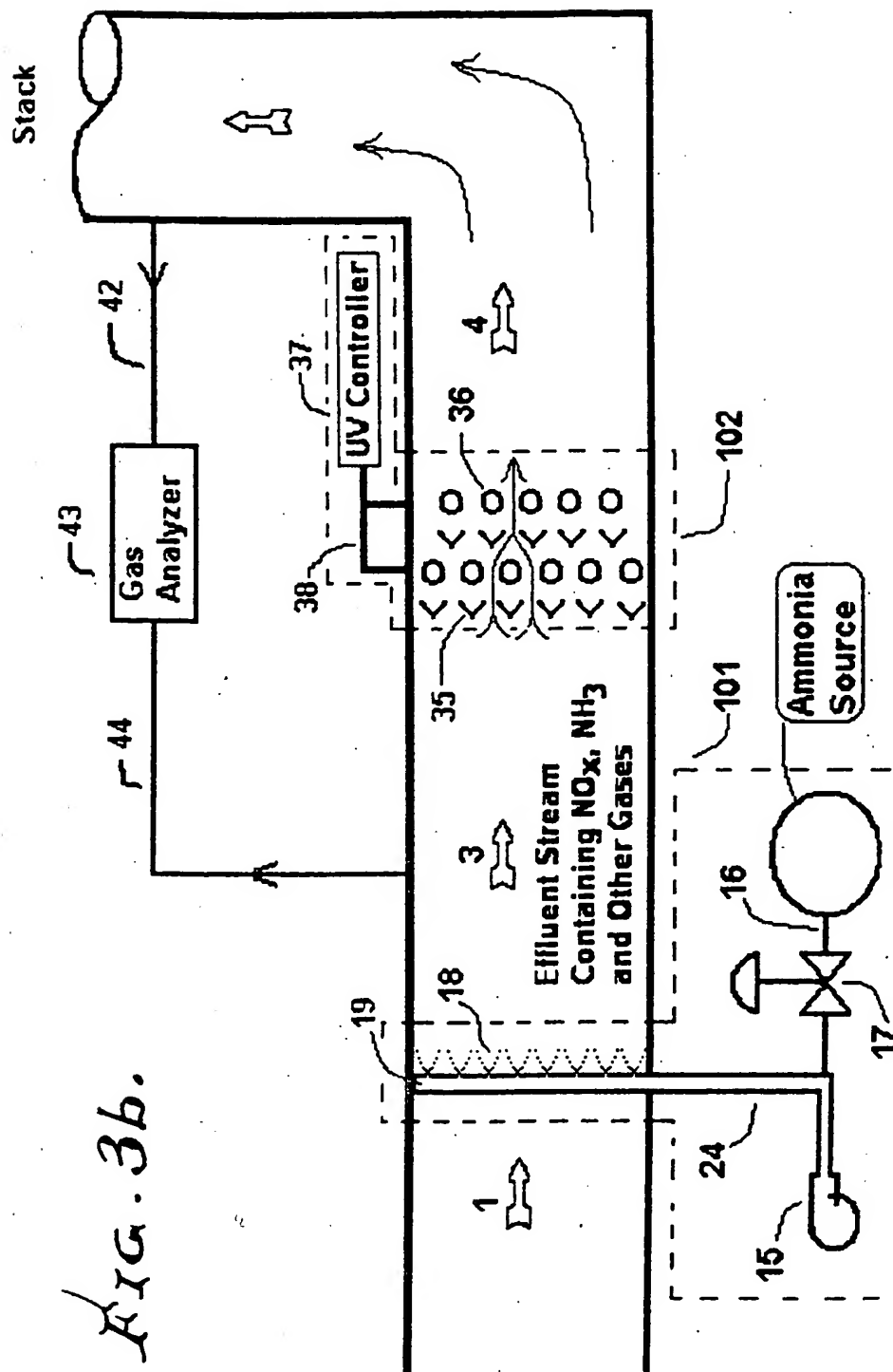
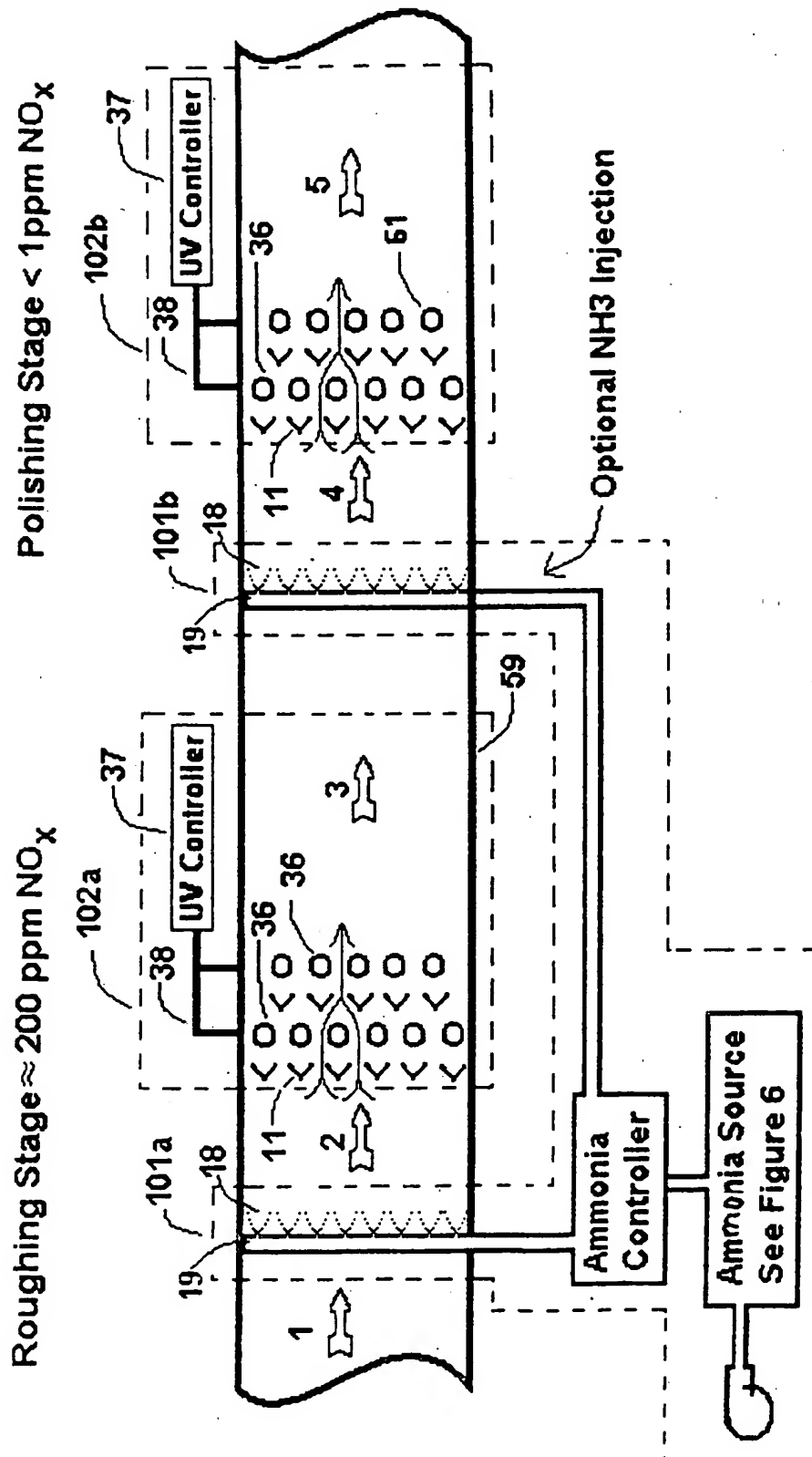


FIG. 3b.

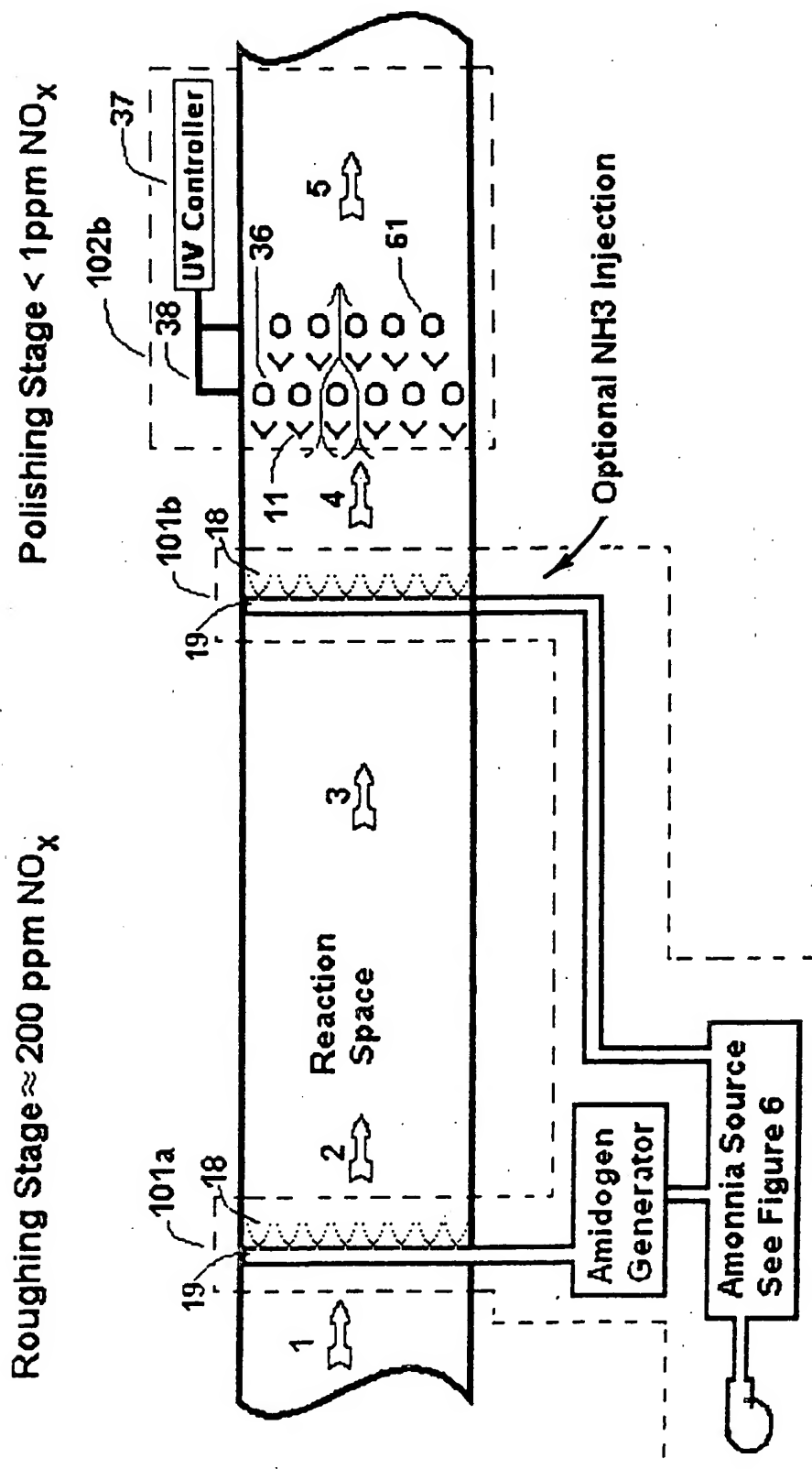
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FIG. 4a.



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FIG. 4b.





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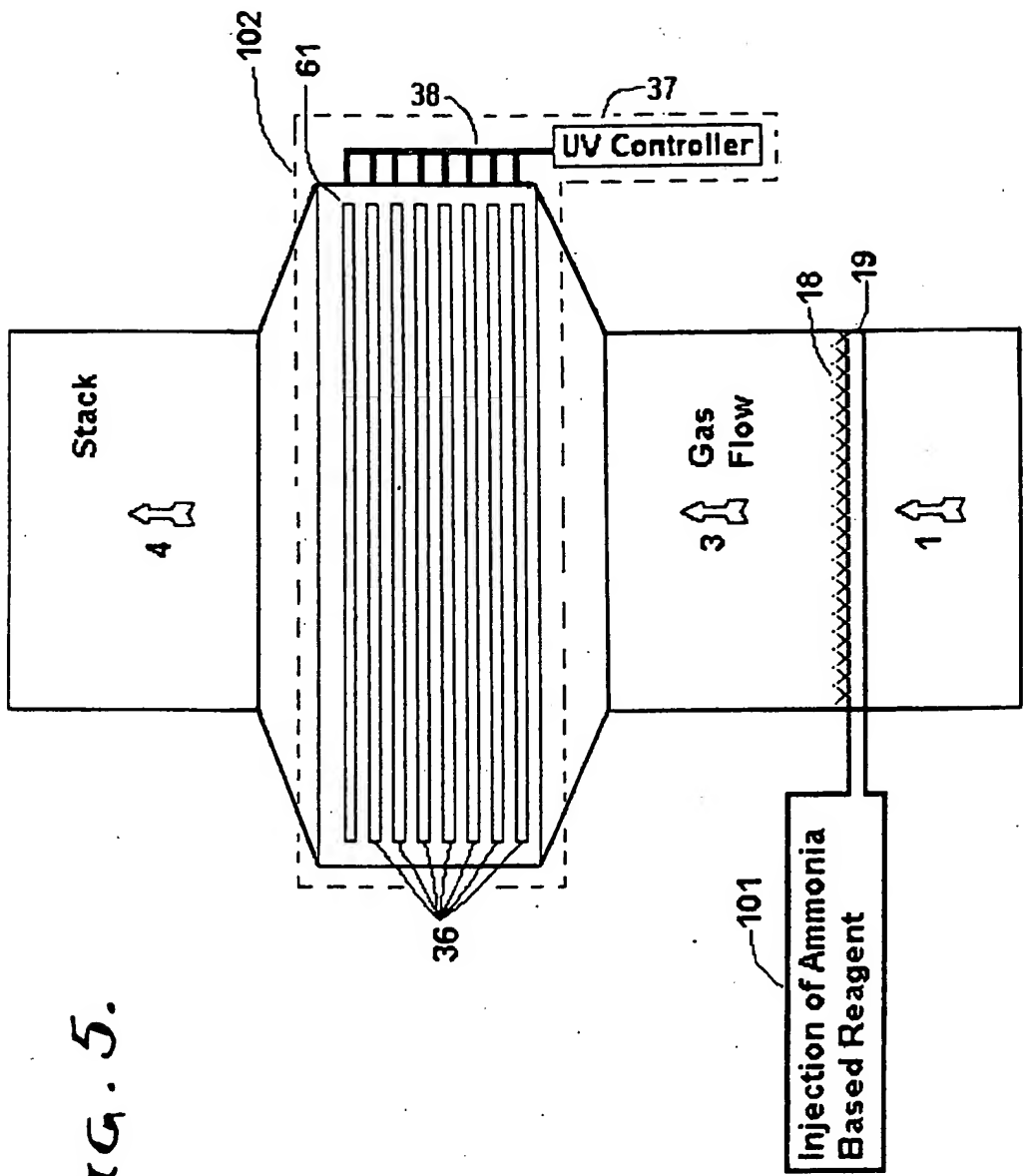
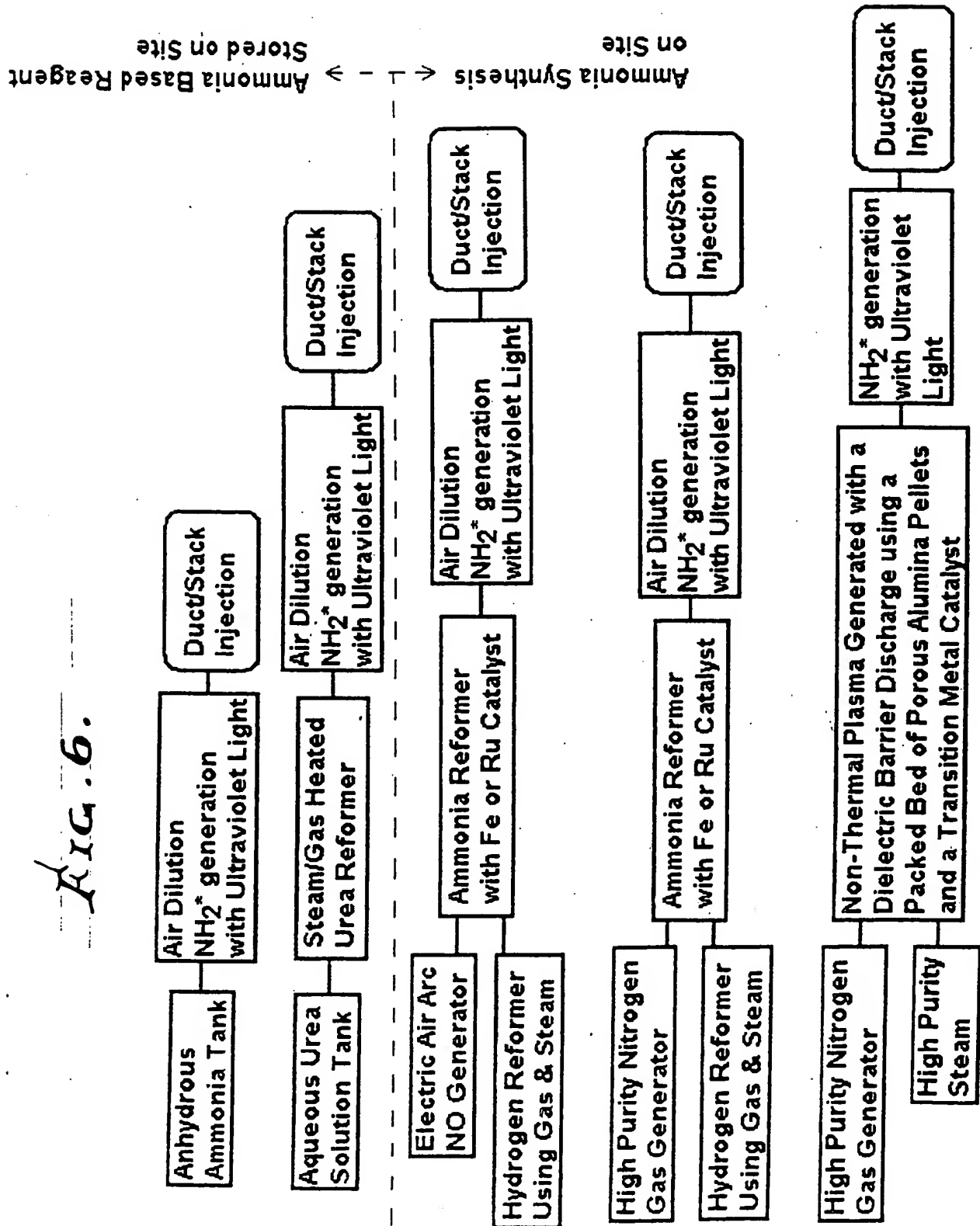


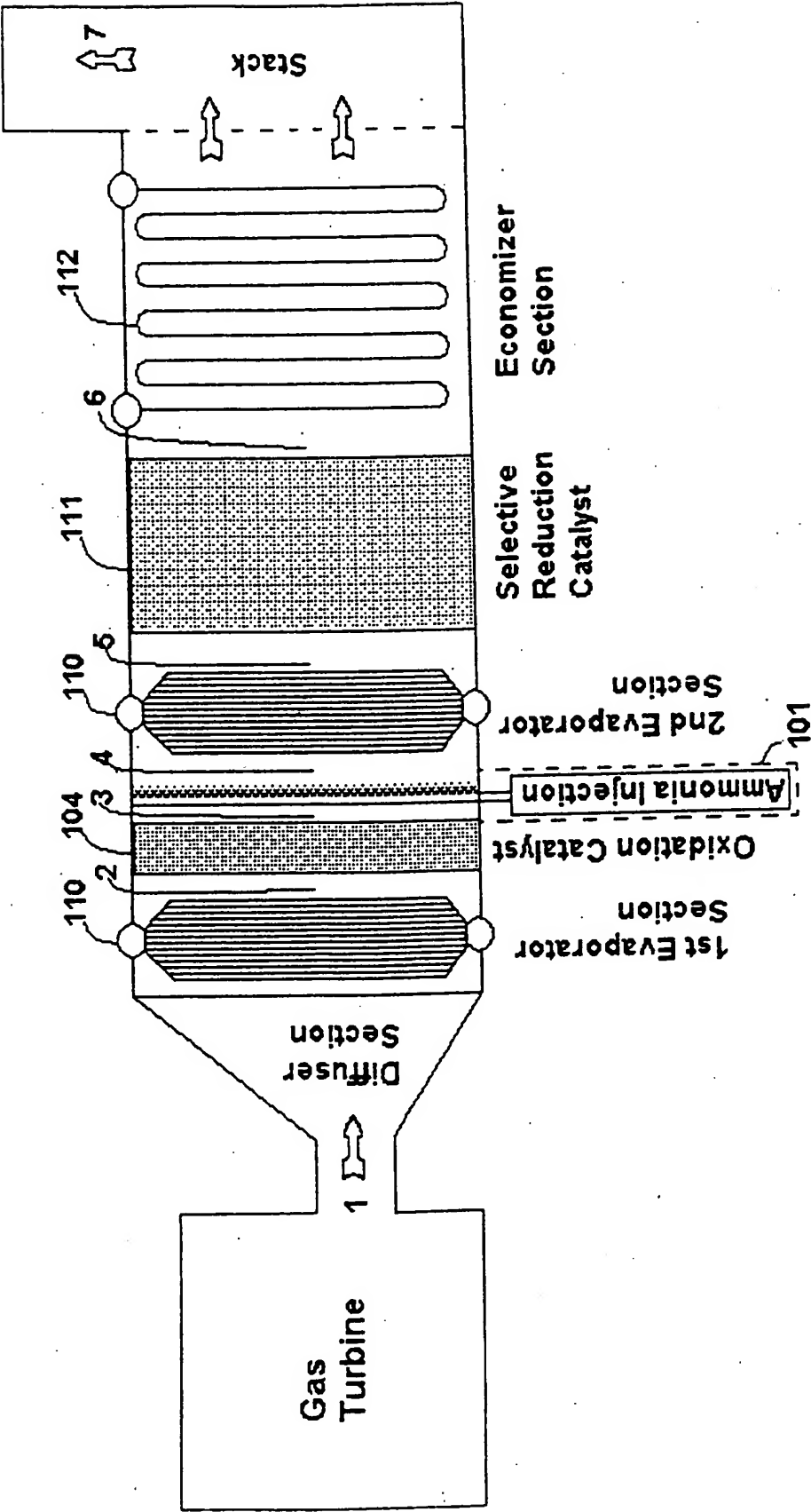
FIG. 5.

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FIG. 7.



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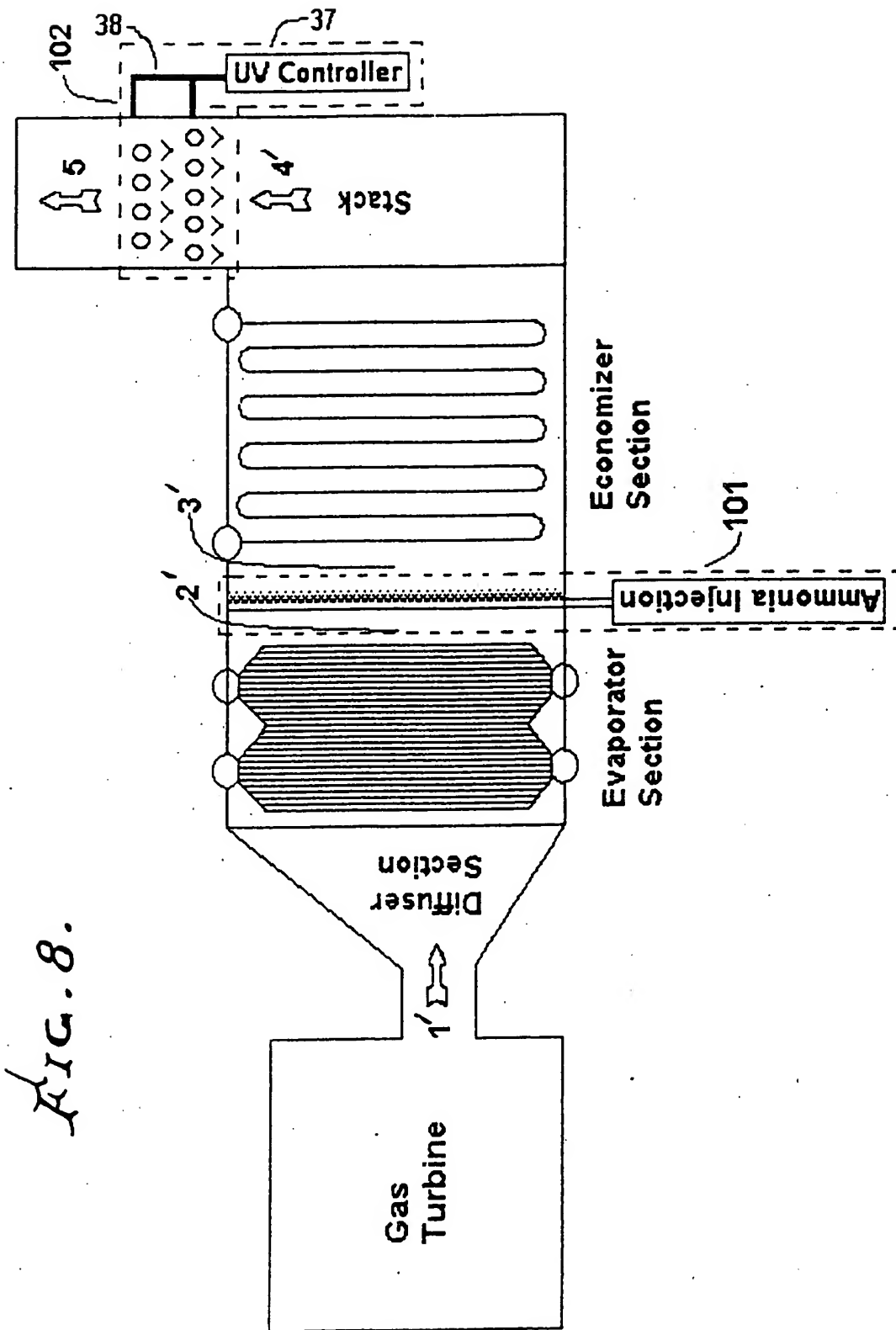
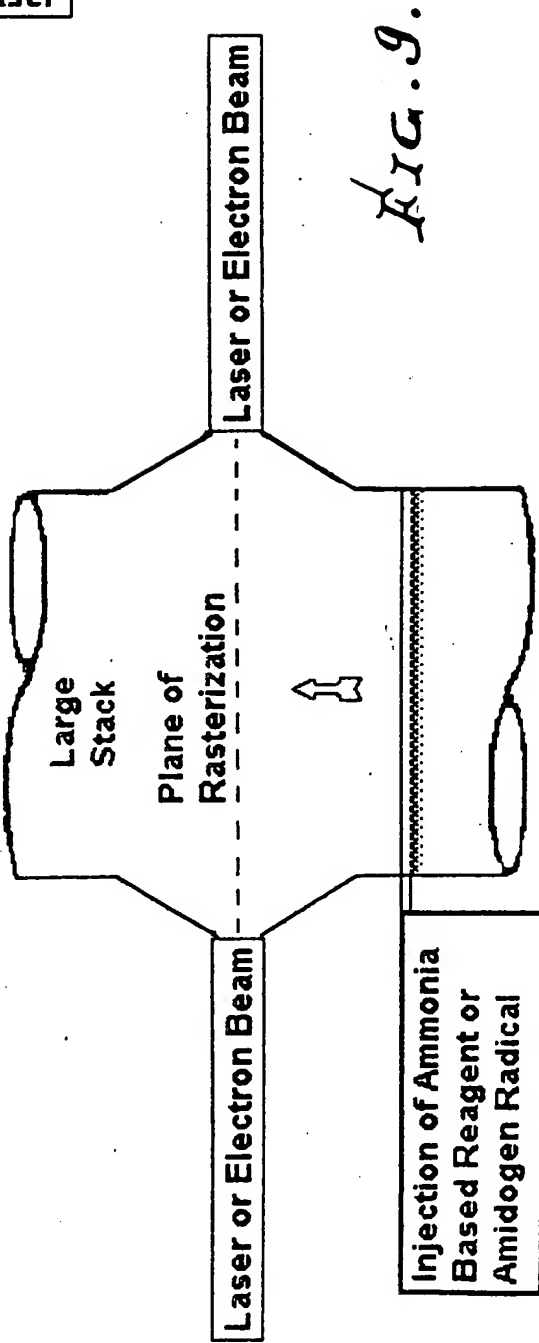
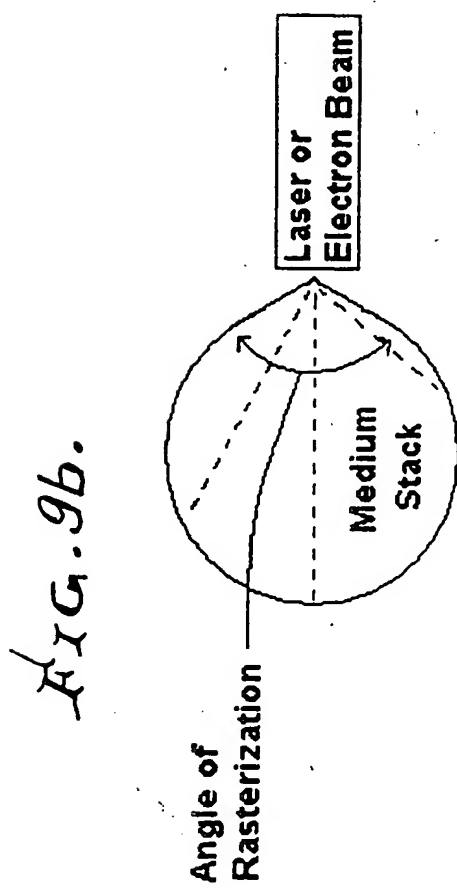
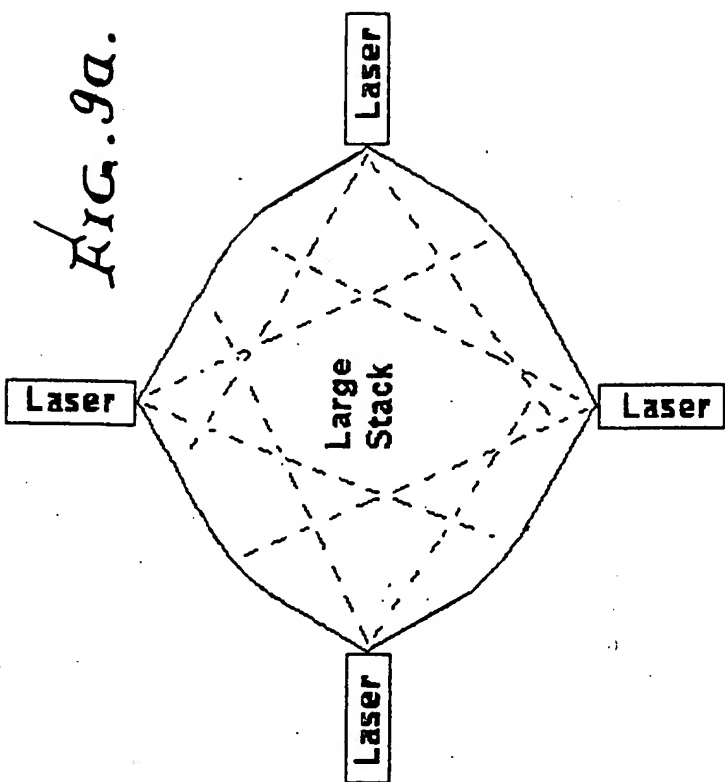


FIG. 8.

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FIG. 10.

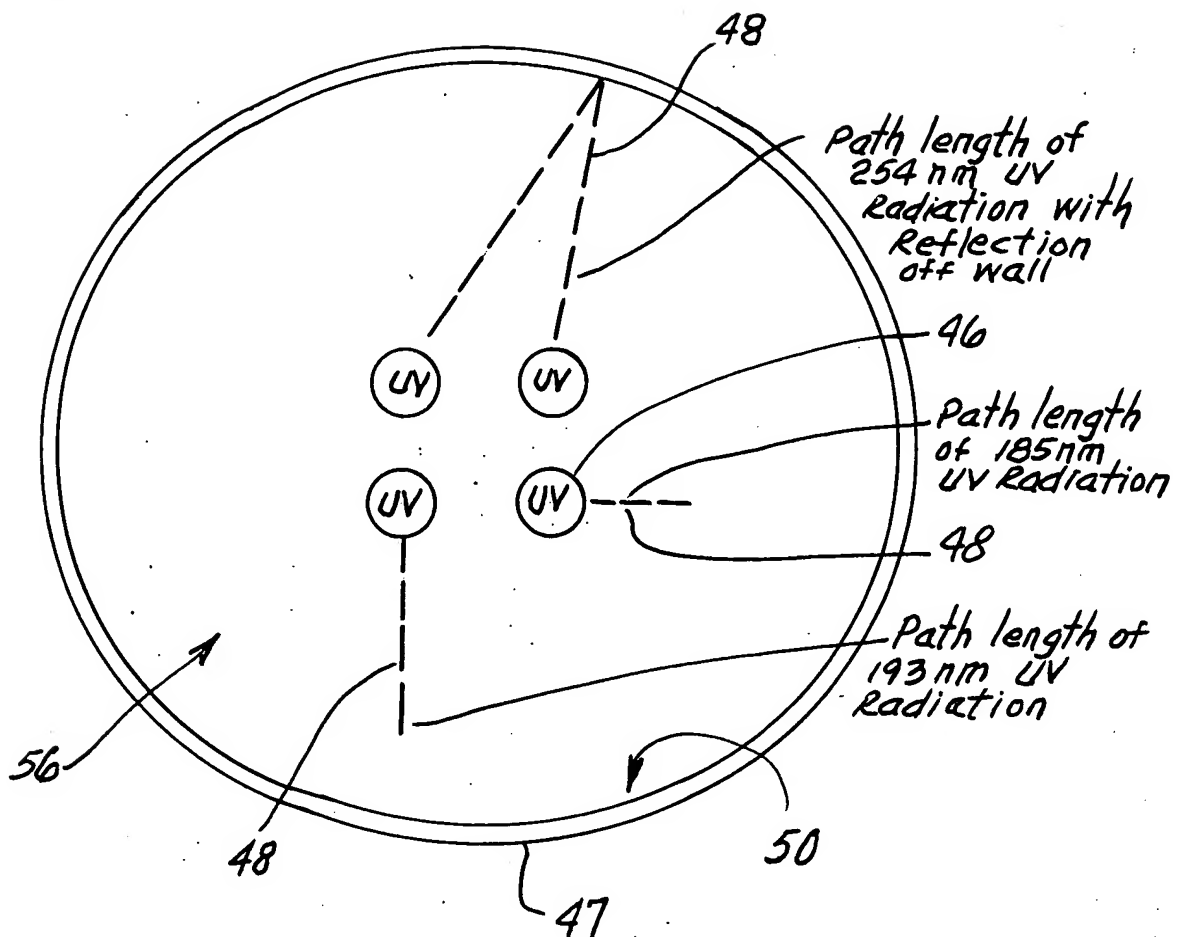
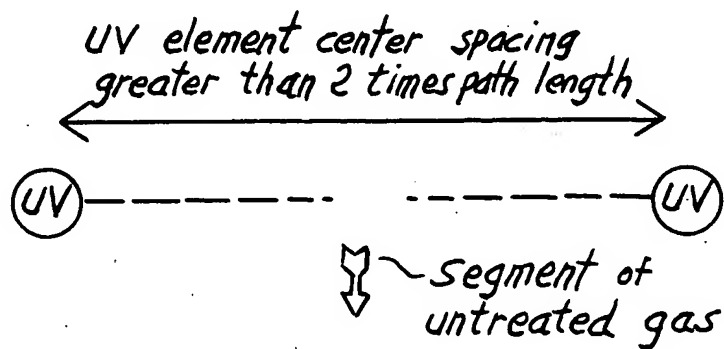
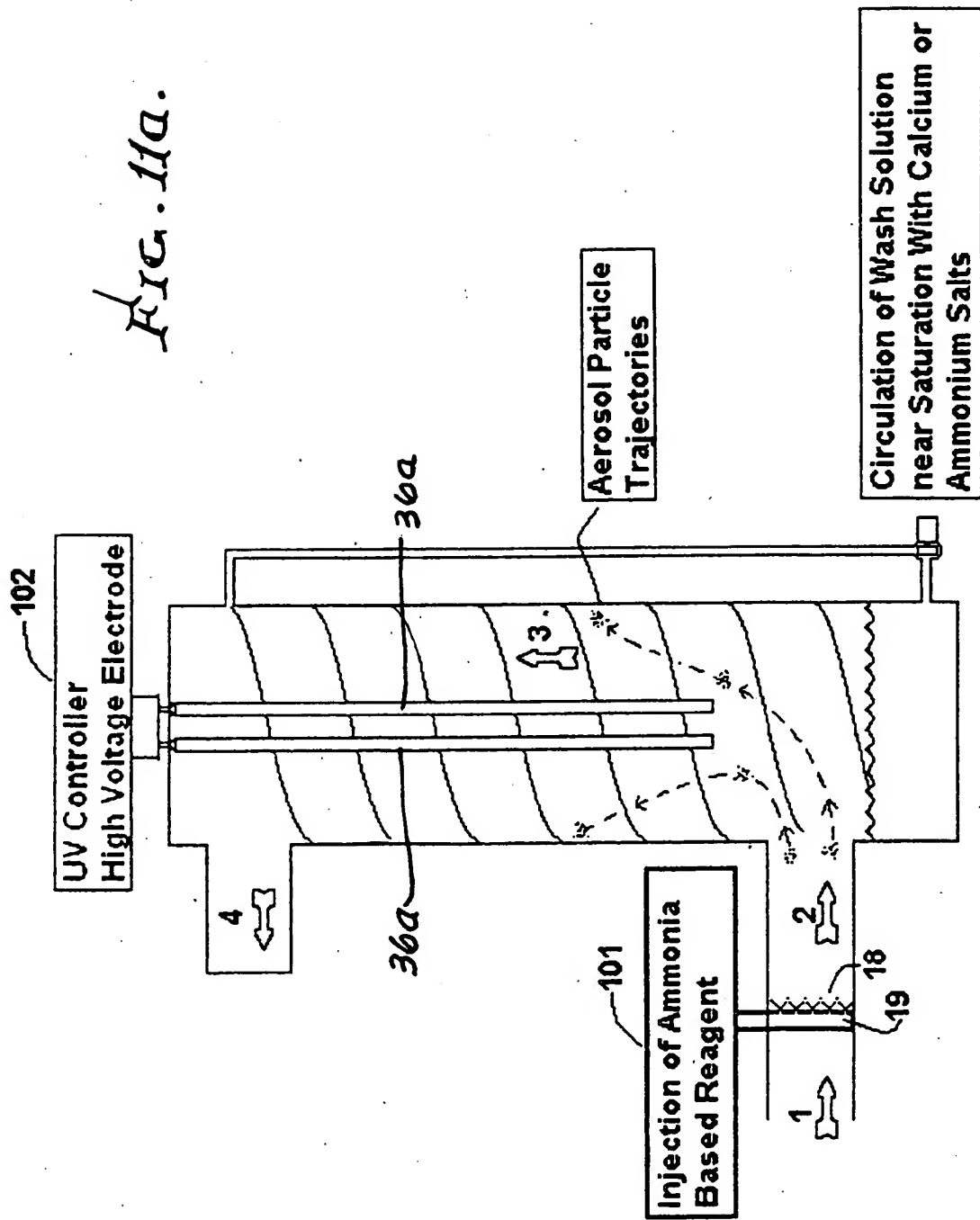


FIG. 10a.



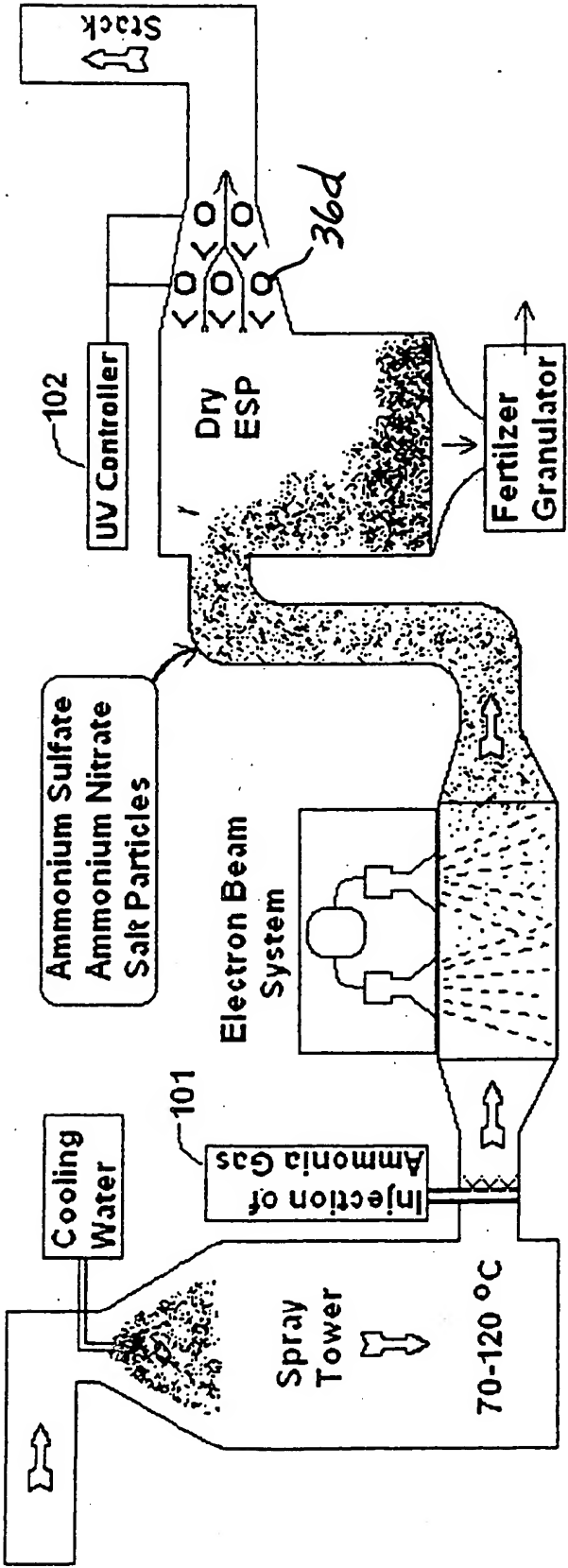
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FIG. 11a.



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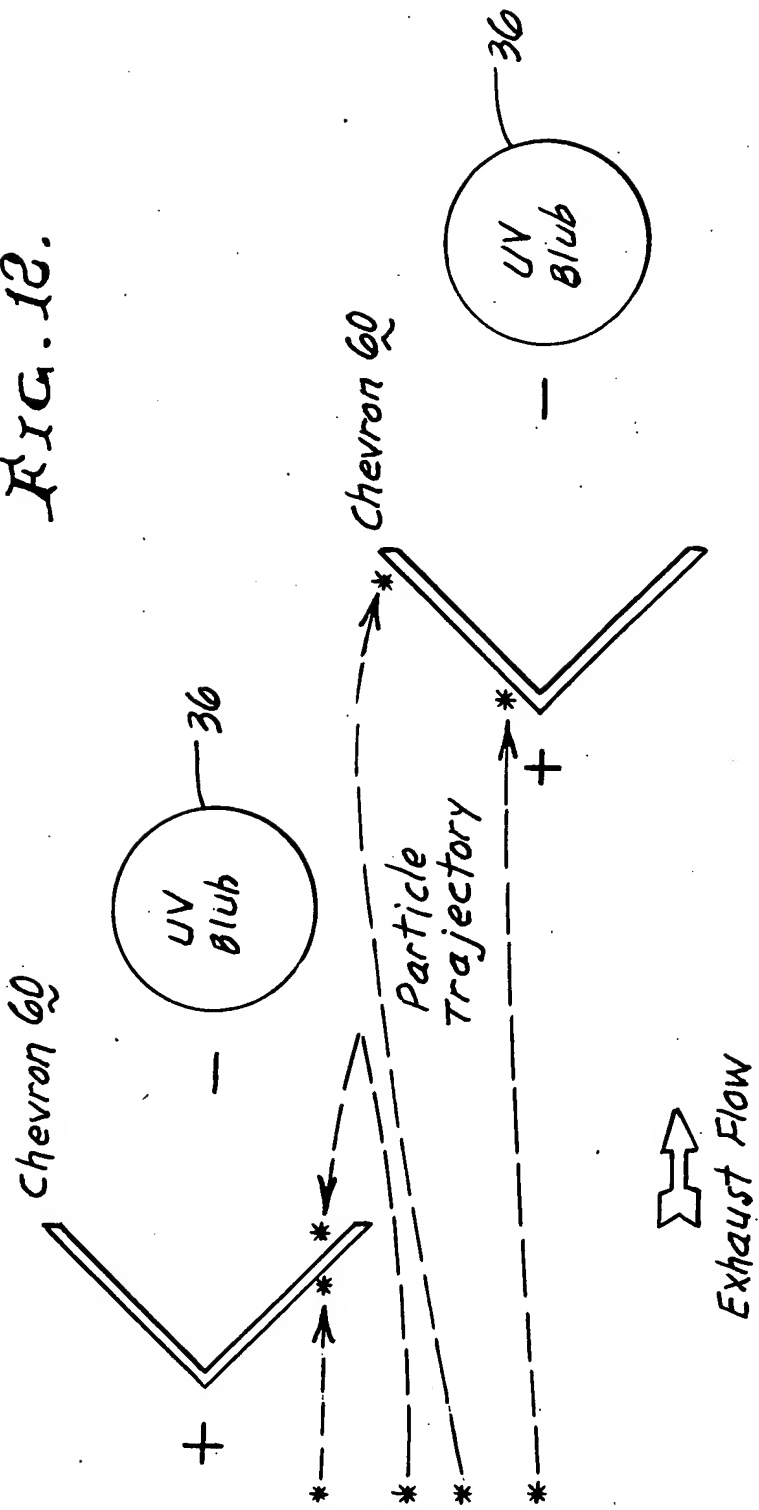
FIG. 11b.





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FIG. 12.



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FIG. 13a.

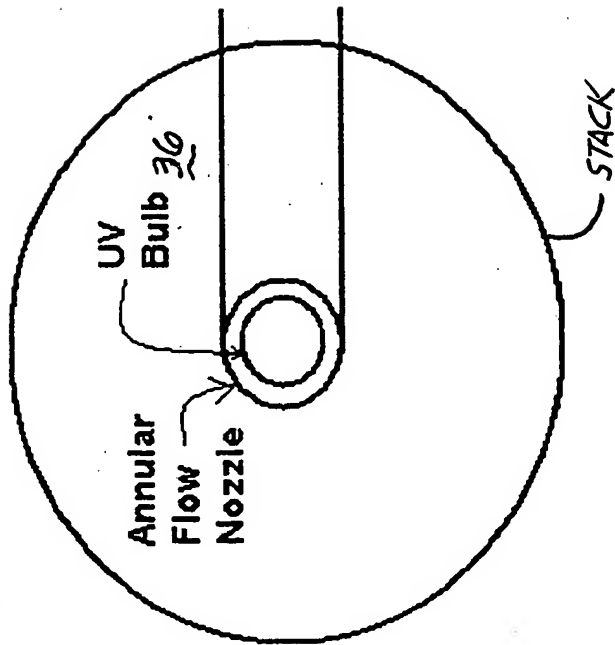
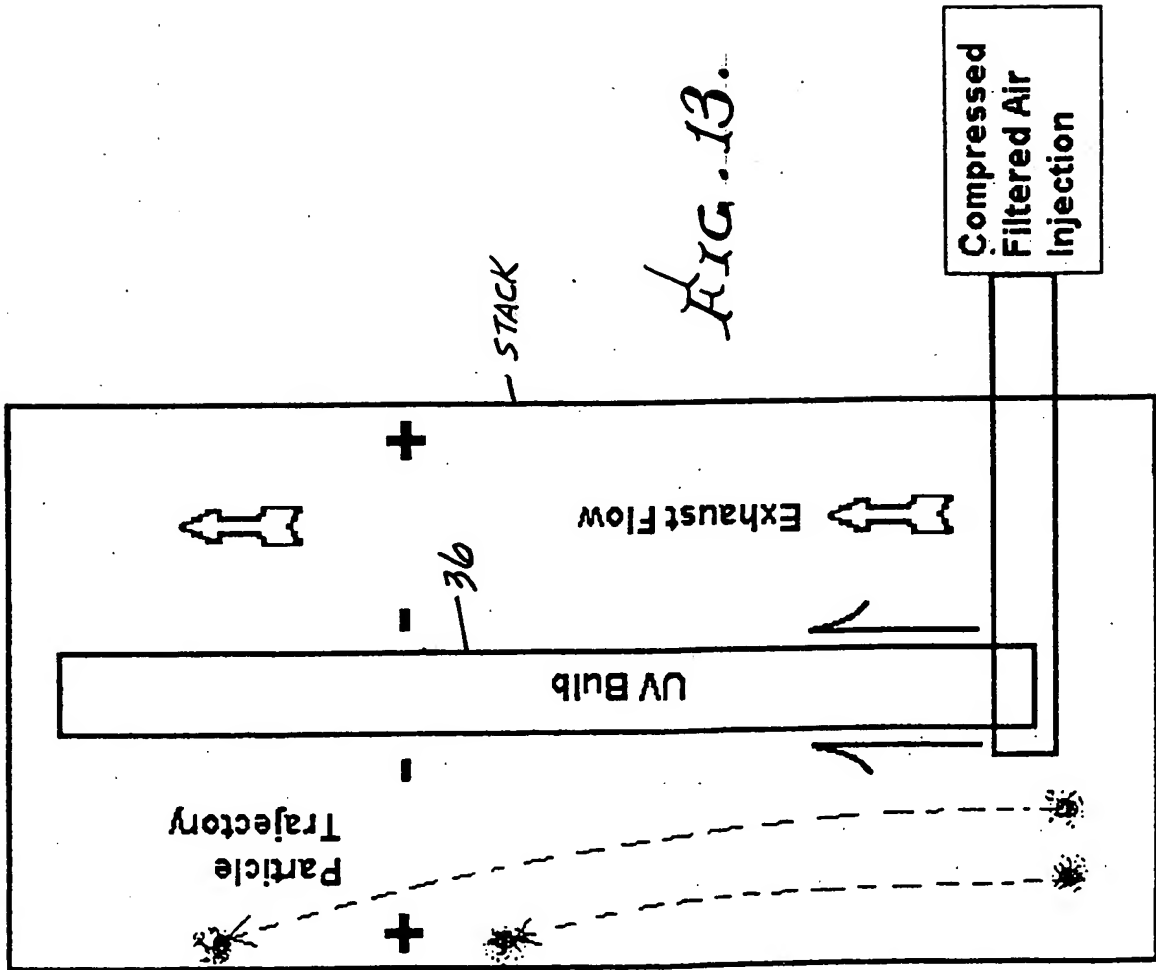


FIG. 13.



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FIG. 14a.

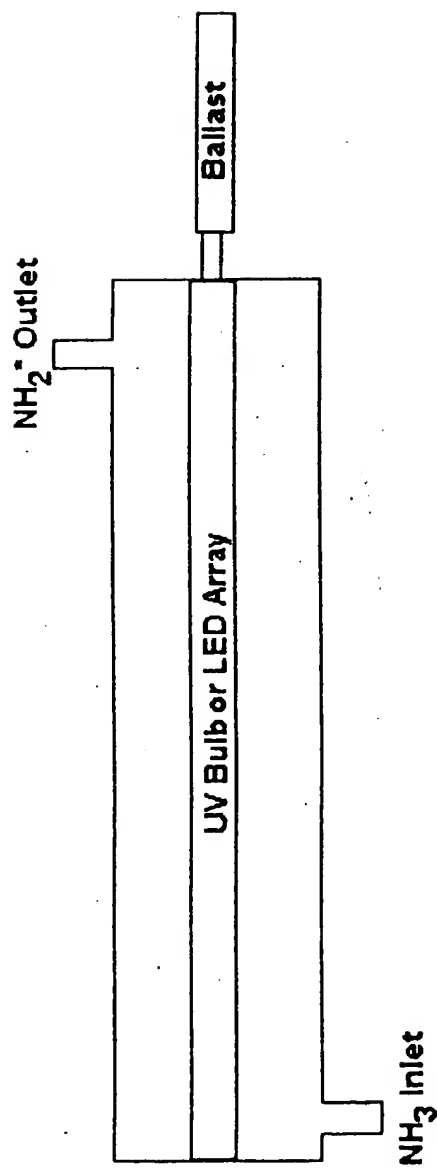
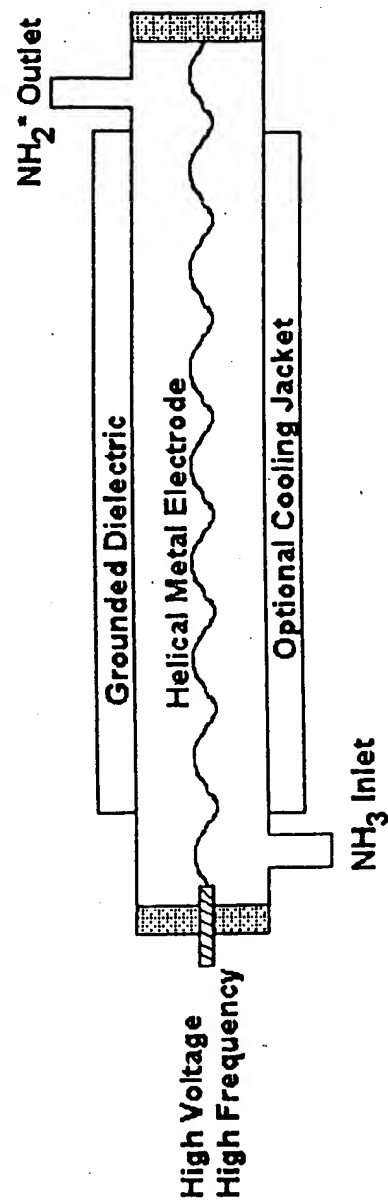


FIG. 14b.



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FIG. 14c.

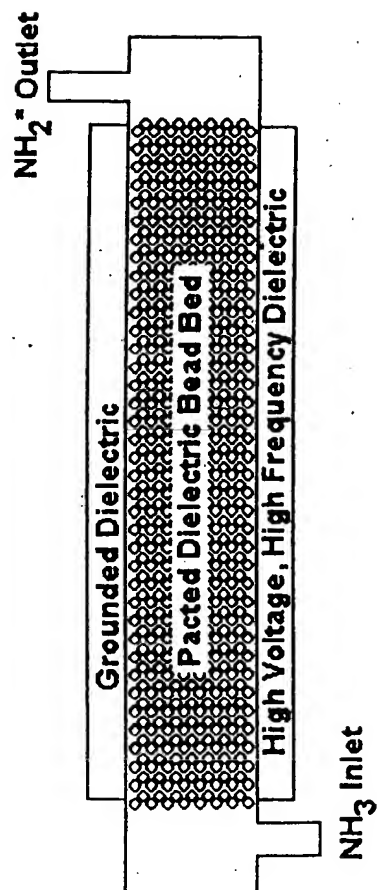
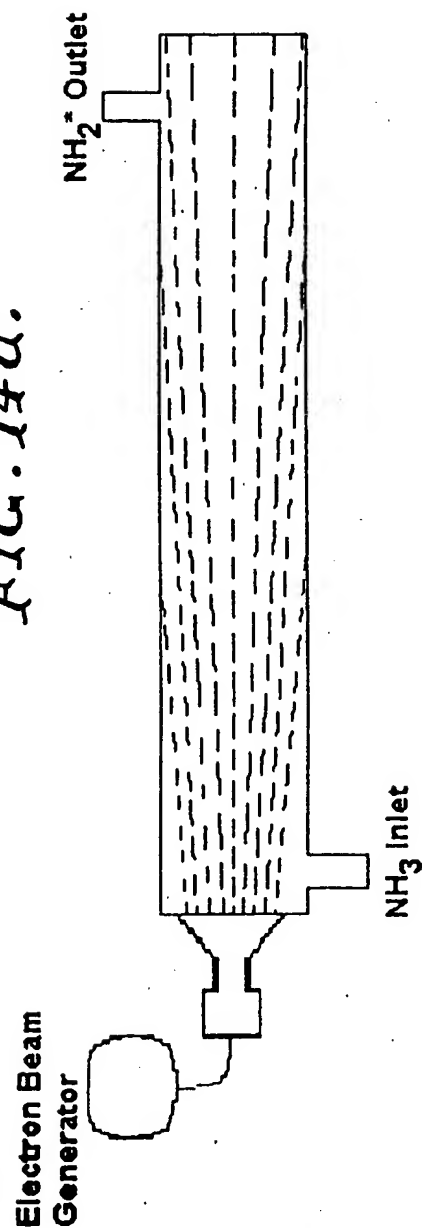


FIG. 14d.



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FIG. 15.

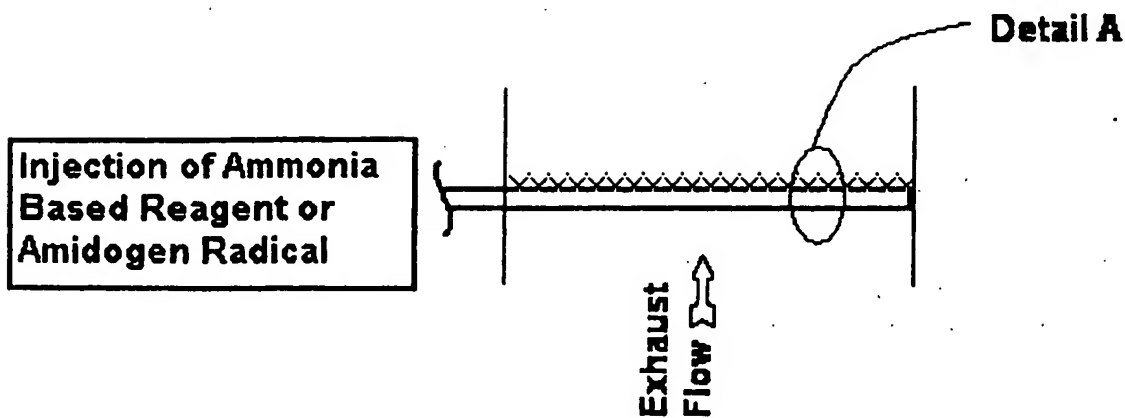
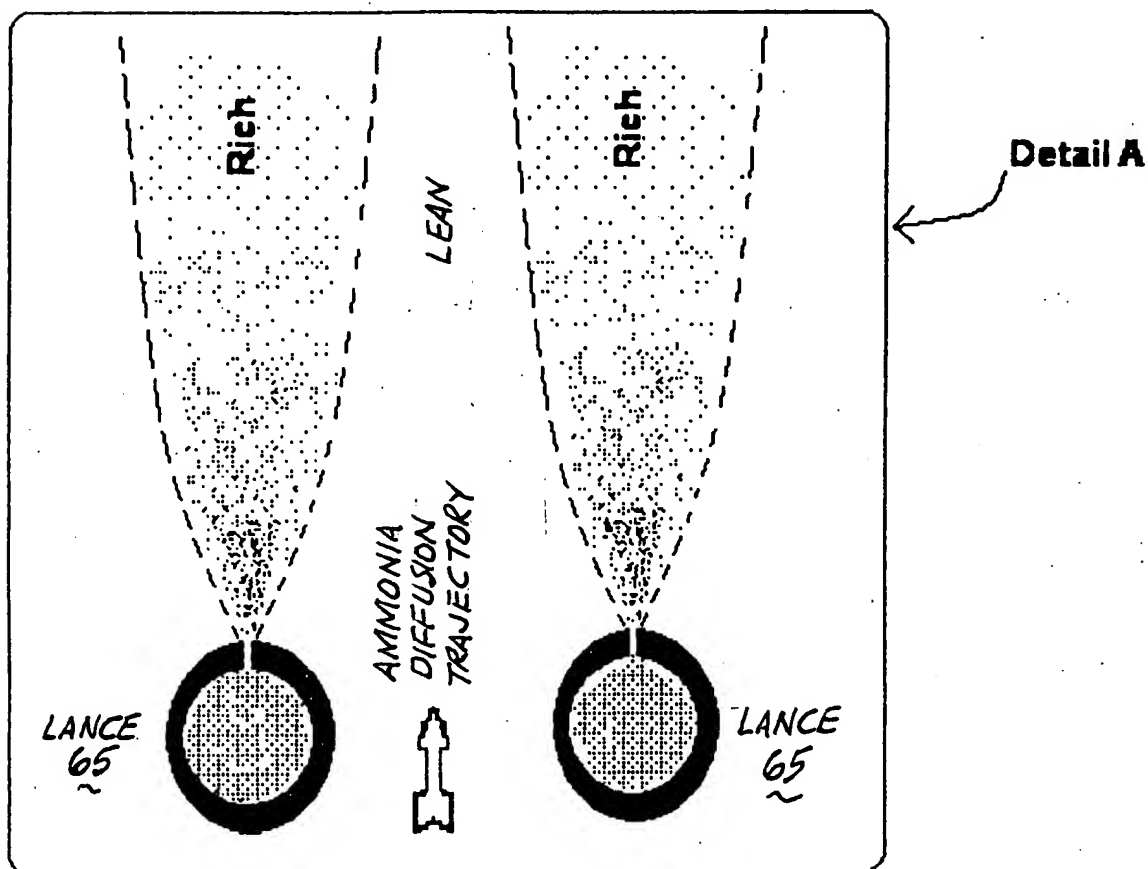


FIG. 15a.



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FIG. 16a.

Detail A

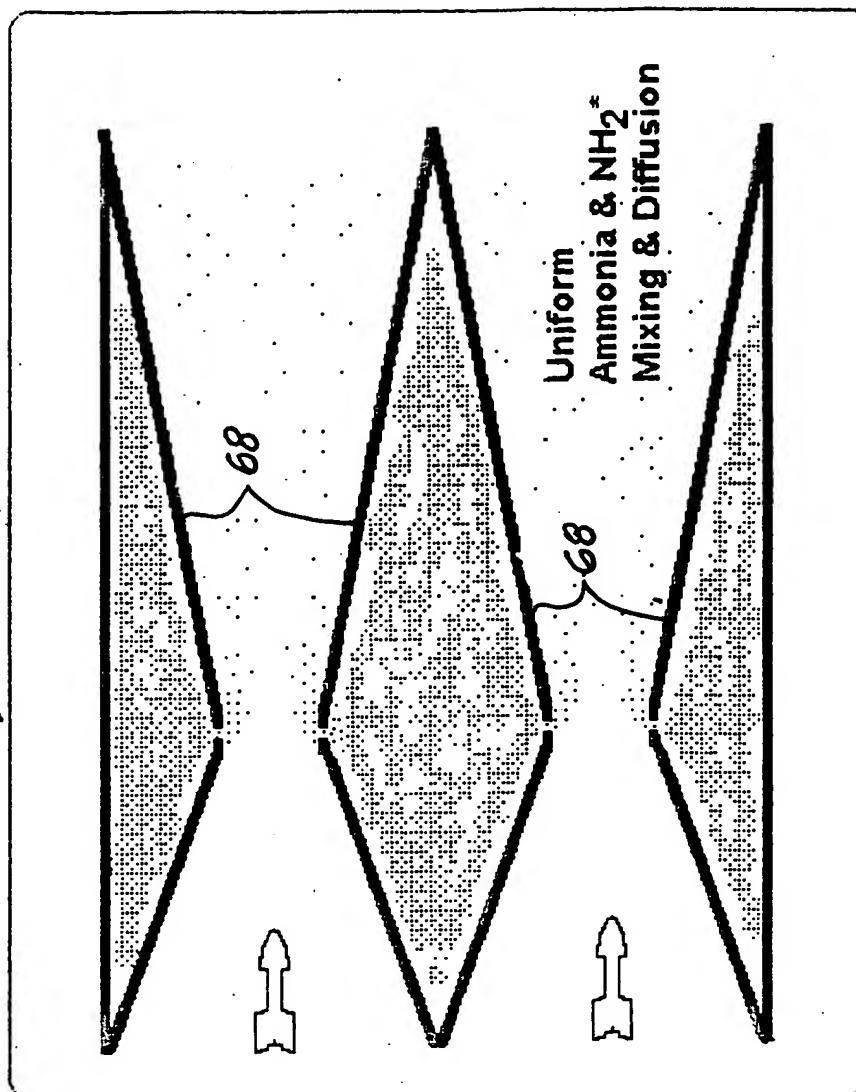
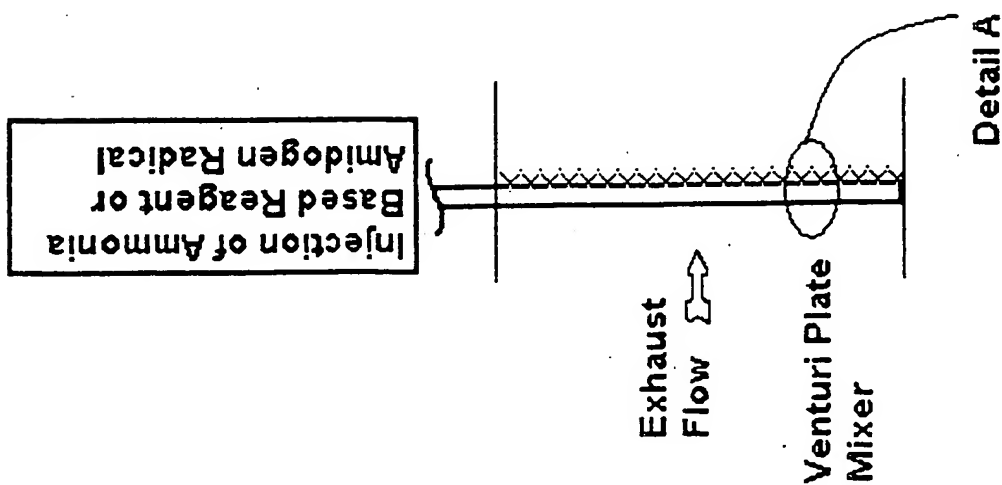
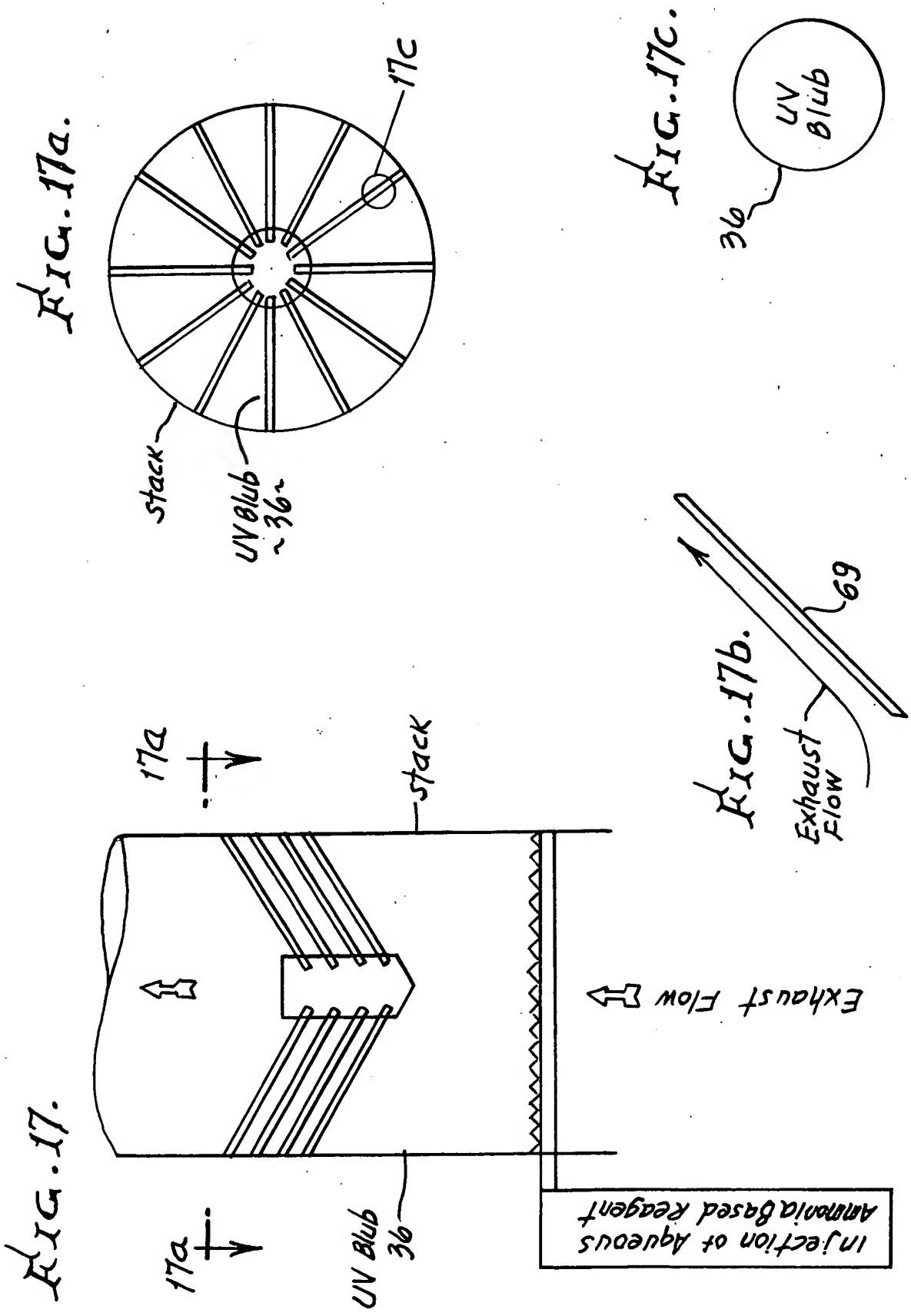


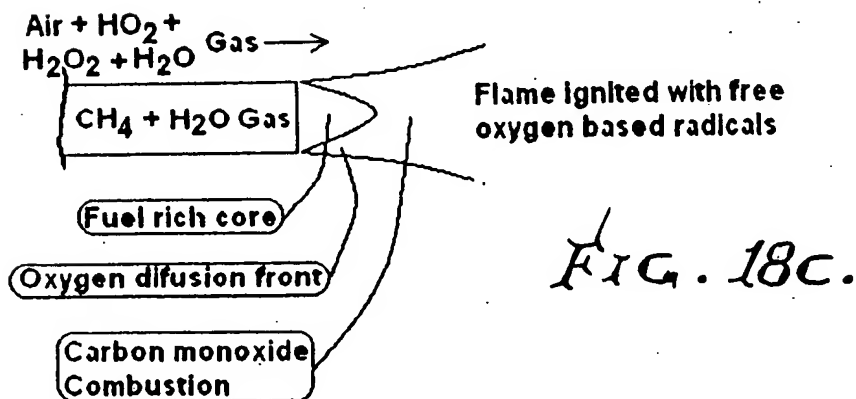
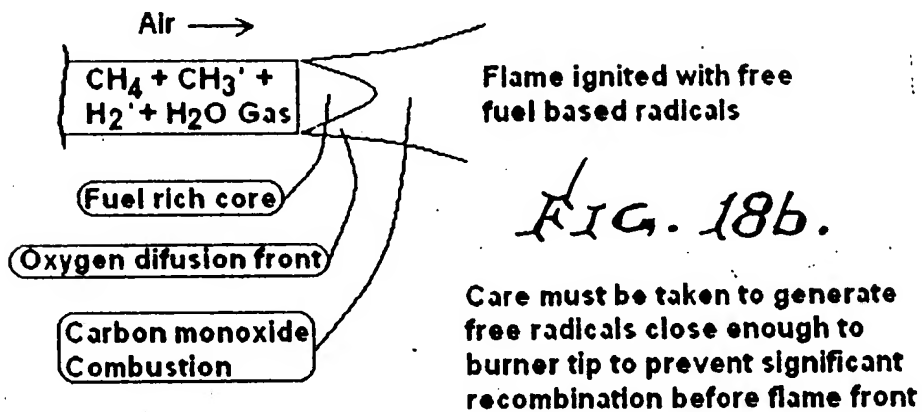
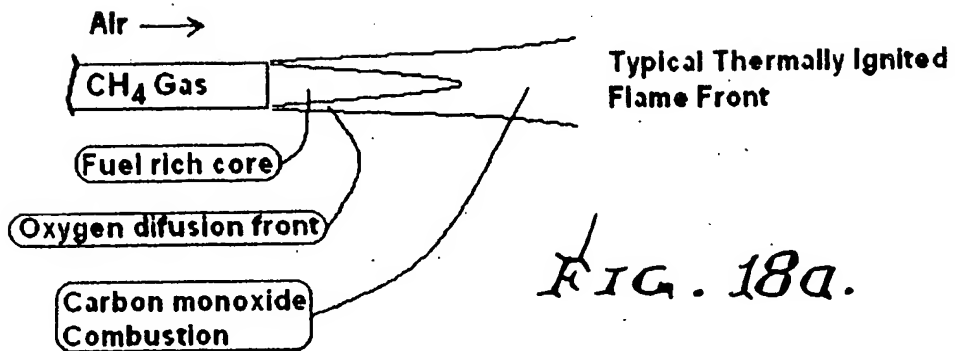
FIG. 16.



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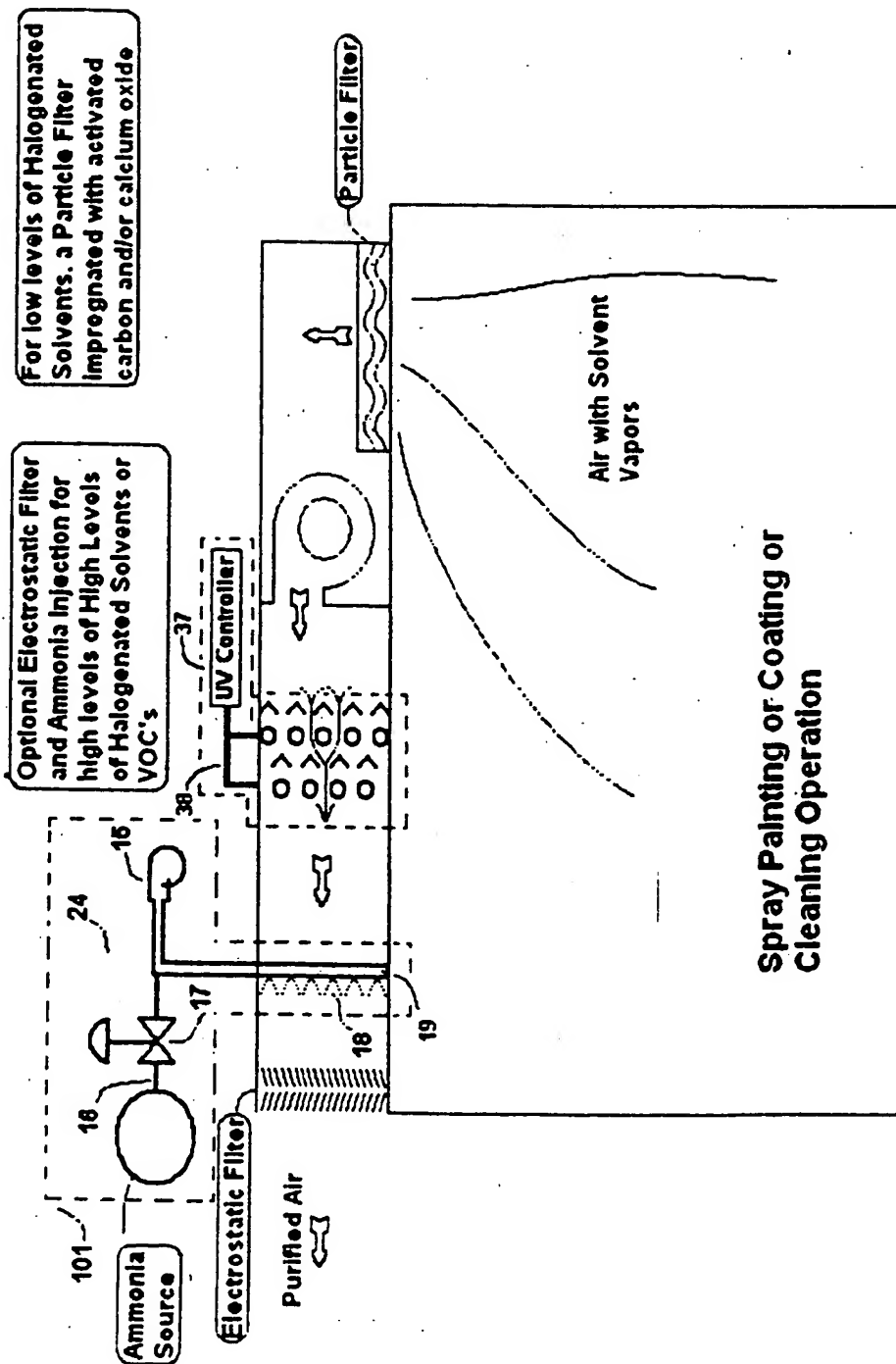
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FIG. 19.



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FIG. 20.

